

## UV REFLECTING MATERIALS FOR LED LAMPS USING UV-EMITTING DIODES

### ABSTRACT

5       A light source comprising a light emitting component comprised of a  
semiconductor material, at least one phosphor material, at least one UV reflecting  
material, and optionally, at least one silicone layer and at least one encapsulant, is  
provided. This light source provides safety to the user against UV exposure and  
protection to other components within the device that may degrade upon exposure to UV  
10   radiation. Furthermore, the UV reflecting material reflects unconverted UV light back  
into the phosphor layer where it is converted to visible light, resulting in increased output  
from the light source.

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